Amendments to the claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of claims:

Claims 1-19 (cancelled).

20 (currently amended): An isolated nucleic acid consisting of nucleotide sequence SEQ ID NO: 1, or nucleic acid sequence SEQ ID NO. 2, their its complementary sequences sequence, a fragment of SEQ ID NO: 2 or a sequence derived from SEQ ID NO: 2 by mutation, deletion, and/or substitution of one or more bases, said derived sequence hybridizing under high stringency conditions with sequence SEQ ID NO: 2 or its complimentary sequence by contacting with a hybridization solution of 5-fold concentrated sodium saline phosphate EDTA, 0.5% Tween 20, and 0.01% merthical followed by washing with a solution containing 10 mM Tris-HCl, 300 mM NaCl and 0.1% Tween 20, pH 7.4, wherein each of said fragment and said derived sequence specifically detects enterohaemorrhagic Escherichia coli (EHECs).

21 (currently amended): An isolated nucleic acid consisting of a fragment of nucleotide sequence SEQ ID NO: 1, a fragment thereof, or a sequence derived from SEQ ID NO: 1 by mutation,

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deletion[,] and/or substitution of one or more bases, said derived sequence hybridizing under high stringency conditions with sequence SEQ ID NO:1 or its complimentary sequence by contacting with a hybridization solution of 5-fold concentrated sodium saline phosphate EDTA, 0.5% Tween 20, and 0.01% merthical and washing with a solution containing 10 mM Tris-HCl, 300 mM NaCl and 0.1% Tween 20, pH 7.4, said fragment or and derived sequence each, containing a nucleotide chain of SEQ ID NO: 1 resulting from stable combination of at least a portion of insertion sequence IS91 and at least a portion of gene sequence katP, wherein each of said fragment and said derived sequence specifically detects an Escherichia coli as being enterohaemorrhagic Escherichia coli (EHECs) (EHEC) of serotype O157:H7.

22 (currently amended): The isolated nucleic acid according to claim 21, including at least wherein each of said fragment and derived sequence is (I) a nucleotide chain of at least 10 consecutive nucleotides of SEQ ID NO: 1 and (ii) includes nucleotides 400 to 407 of SEQ ID NO: 1.

23 (currently amended): The isolated nucleic acid according to claim 20, wherein each of said fragment and derived sequence being is a nucleotide chain of at least 8 10 consecutive nucleotides of SEQ ID NO: 2.

24 (previously presented): The isolated nucleic acid according to claim 21 selected from the group consisting of:

SEQ ID NO: 10: 5'-AAGGGGTTCCAAGCCGCAACTGACGA-3'

SEQ ID NO: 11:5'-TAAGGGGTTCCAAGCCGCAACTGACG-3'10

SEQ ID NO: 12: 5'-CTCAACGGCATCGTCAGTTGCGGCTTGGAAC-3'

SEQ ID NO: 13: 5'-AGCACTCAACGGCATCGTCAGTTGCGGCTTG-3'

SEQ ID NO: 18: 5'-GGCATCGTCAGTTG-3'

SEQ ID NO: 19: 5'-CGGCATCGTCAGTTGC-3' and

SEQ ID NO: 20:5'-ACGGCATCGTCAGTTGCG-3'.

25 (previously presented): The isolated nucleic acid according to claim 20 selected from the group consisting of:

SEQ ID NO: 21: 5'-CCACCTGAACGATAAGCGGAAC-3'

SEQ ID NO: 22:5'-CACCTTCCTTCCATCCTCAGAC-3'

SEQ ID NO: 23: 5'-ATCCCAGCGCGCTCCAGCTG-3'

SEQ ID NO: 24 : 5'-ACCCATGATGGCGCATCTGATG-3'

SEQ ID NO: 25 : 5'-ACGTTCTGGTCTTACGGGTGATGTAGGTTTT-3'

SEQ ID NO: 26: 5'-TAGTGAAGCGGTGACAGCATATCAGACGGCT-3' and

SEQ ID NO: 27: 5'-GTGAGATAGGCACAACAATGA-3'.

Claim 26 (cancelled).

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27 (previously presented): Plasmid pDF3 deposited at Collection Nationale de Cultures de Microorganismes under number I-1999, on 26 March 1998.

28 (previously presented): Plasmid pDF4 deposited at Collection Nationale de Cultures de Microorganismes under number I-2000, on 26 March 1998.

29 (previously presented): A host cell comprising the plasmid according to claim 27.

30 (previously presented): A host cell comprising the plasmid according to claim 28.

Claims 31-60 (cancelled).